

Abstract

Proton-conducting membrane and the use thereof

5 The present invention relates to a novel proton-conducting polymer membrane
based on aromatic polyazoles which contain sulfonic acid groups and in which the
sulfonic acid groups are covalently bound to the aromatic ring of the polymer and
which can, owing to their excellent chemical and thermal properties, be used for a
variety of purposes. Such materials are particularly useful for the production of
10 polymer electrolyte membranes (PEMs) in PEM fuel cells.